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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,134	03/30/2006	Jin Yokoyama	NS-US065281	5661
	7590 04/03/200 OUNSELORS, LLP		EXAMINER	
1233 20TH STI	REET, NW, SUITE 70		GIMIE, MAHMOUD	
WASHINGTON, DC 20036-2680			ART UNIT	PAPER NUMBER
			3747	
			MAIL DATE	DELIVERY MODE
			04/03/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/574,134	YOKOYAMA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Mahmoud Gimie	3747			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 13 Fe	ebruary 2009.				
	action is non-final.				
<i>i</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>3-10 and 12-16</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>3-10 and 12-16</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on 18 June 2008 is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/13/2009. 5) Notice of Informal Patent Application 6) Other:					
Paper No(s)/Mail Date <u>2/13/2009</u> . 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 3-10 and 12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murata et al. (JP-02286837) in view of Goto (US 6,173,697). Regarding claims 3 and 4, Murata discloses a control method for an internal combustion engine comprising: determining (314) when a throttle valve (6) in an intake system of the internal combustion engine is stuck in a fixed position; controlling a throttle aperture (Q) to maintain the throttle valve aperture in the fixed position and to increase the throttle valve aperture of the throttle valve when an amount of fuel injection is less than a prescribed amount; operating a fail-safe control (specific control pattern, page 16, paragraph 03 to page 18) to ensure a prescribed torque in the engine; and performing recovery diagnostics while fail-safe control is being performed to determine whether the fixed state of the throttle valve has been released

Murata does not clearly teach a fail-safe control system that adjusts the opening of a throttle valve.

Goto discloses a fail-safe control system that adjusts the opening degree a throttle valve (col. 3 and I. 19)

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the invention of Murata by make the disclosed specific control pattern a fail-safe control system as taught by Goto in order to provide a safe control of the engine when the throttle valve is stuck.

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Regarding claim 5, wherein the operating of the fail-safe control further includes suppressing occurrence of smoke when an air-fuel ratio is less than a prescribed mixture, or is a rich mixture, when said amount of fuel injection has been increased. Regarding claim 6, wherein the suppressing the occurrence of smoke includes delaying a fuel injection timing more than when normal control is performed.

Regarding claim 7, the suppressing of the occurrence of smoke includes dividing the fuel injection during a combustion cycle into a reserve fuel injection and a main fuel injection so that reserve fuel injection timing is advanced and main fuel injection timing is delayed as compared to when normal control performed.

Regarding claim 8, wherein the suppressing of the occurrence of smoke includes dividing the fuel injection during a combustion cycle into a reserve fuel injection and a main fuel injection so that a volume the proportion of the reserve fuel injection is reduced or eliminated as compared to during normal control.

Regarding claim 9, wherein the suppressing of the occurrence of smoke includes reducing or stopping an EGR rate.

Regarding claims 10 and 11-16, the claimed subject matter is comparable to the above rejected claims.

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Conclusion

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mahmoud Gimie whose telephone number is 571-272-4841. The examiner can normally be reached on Monday-Friday between 7 a.m. -3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen K. Cronin can be reached on 571-272-4536. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mahmoud Gimie/ Primary Examiner, Art Unit 3747